

Mixture type (U,S)	AA,AA	AA,AB	AB,AA
Frequency of observations (fm)	$fa^4$	$2fa^3fb$	$2fa^3fb$
LR (numerator)	1	$(fa+fb)^2$	$fb^2+2fafb$
LR (denominator)	$fa^2$	$6fa^2fb^2+4fa^3fb+4fafb^3$	$6fa^2fb^2+4fa^3fb+4fafb^3$

Mixture type (U,S)	AA,BB	BB,AA	AB,AB
Frequency of observations (fm)	$fa^2fb^2$	$fa^2fb^2$	$4fa^2fb^2$
LR (numerator)	$fa^2+2fafb$	$fb^2+2fafb$	$(fa+fb)^3$
LR (denominator)	$6fa^2fb^2+4fa^3fb+4fafb^3$	$6fa^2fb^2+4fa^3fb+4fafb^3$	$6fa^2fb^2+4fa^3fb+4fafb^3$

Mixture type (U,S)	AB,BB	BB,AB	BB,BB
Frequency of observations (fm)	$2fafb^3$	$2fafb^3$	$fb^4$
LR (numerator)	$fa^2+2fafb$	$(fa+fb)^2$	1
LR (denominator)	$6fa^2fb^2+4fa^3fb+4fafb^3$	$6fa^2fb^2+4fa^3fb+4fafb^3$	$fb^2$

Fig 1

0022037 4895460

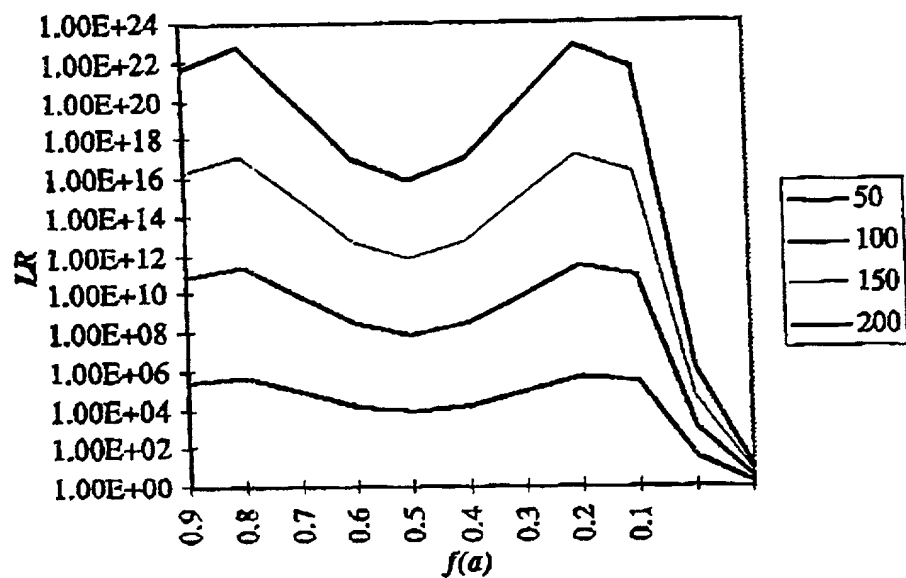


Fig 2

002227 28954260

Mixture type (V,S)	AA,AA	AA,AB	AB,AA
Frequency (fm)	$fa^4$	$f2a^3b$	$2a^3b$
LR (denominator)	$fa^2$	$2ab+b^2$	$(a+b)^2$

Mixture type (V,S)	AA,BB	BB,AA	AB,AB
Frequency (fm)	$fa^2 b^2$	$fa^2 fb^2$	$4fa^2b^2$
LR (denominator)	$fb^2+2fafb$	$fa^2+2fafb$	$(fa+fb)^2$

Mixture type (V,S)	AB,BB	BB,AB	BB,BB
Frequency (fm)	$2fafb^3$	$2fafb^3$	$fb^4$
LR (denominator)	$(fa+fb)^2$	$fa^2+2fafb$	$fb^2$

Fig-3

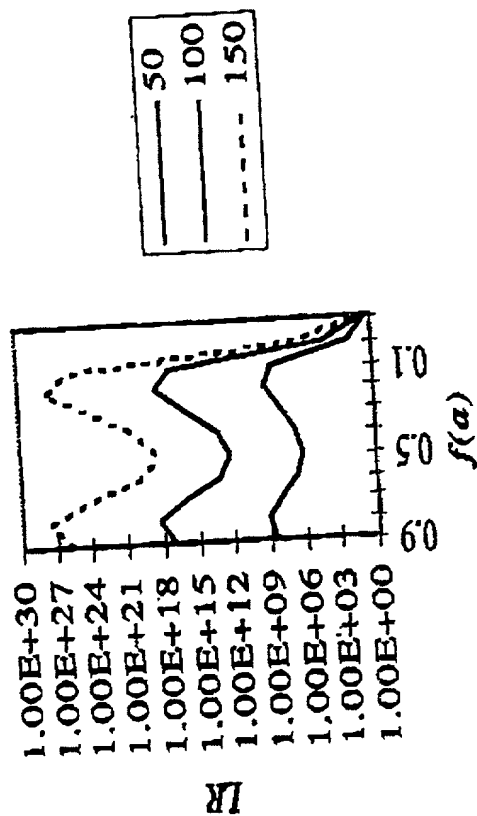


Fig 4

Fig 5

Locus	Victim	Suspect	Difference	Result	Perpetrator	Is Likelihood ratio
1	AA	AB	B	B	AB or BB	$2AB+B^2$
2	AB	AA	X	X	AA or AB or BB	1
3	BB	AB	A	A	AA or AB	$2AB+B^2$
4	AB	BB	X	X	AA or AB or BB	1
5	AA	AB	B	B	AB or BB	$2AB+B^2$
6	BB	BB	A	X	BB	$B^2$
7	AA	BB	B	B	AB or BB	$A^2+2AB$

002227 28954760

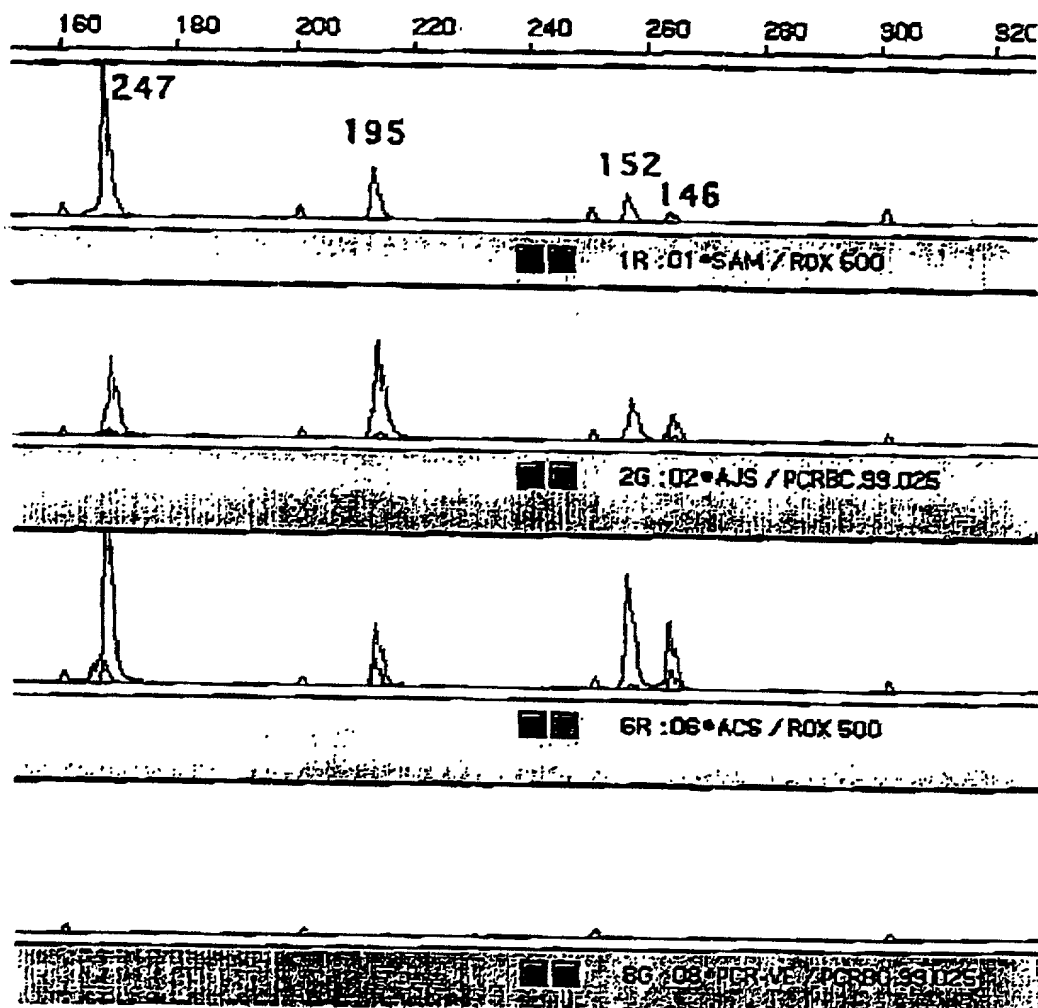


Fig 6

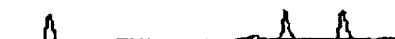
00745687-12200

00 320 340 360



(0pg) / PCRBC 99.070  
(0pg) / ROK 500

300 320 340 360



(0pg) / PCRBC 99.076  
(0pg) / ROK 500



(12.5pg) / PCRBC 99.070  
(12.5pg) / ROK 500



(12.5pg) / PCRBC 99.076  
(12.5pg) / ROK 500



(25pg) / PCRBC 99.070  
(25pg) / ROK 500



(25pg) / PCRBC 99.076  
(25pg) / ROK 500



(50pg) / PCRBC 99.070  
(50pg) / ROK 500



(50pg) / PCRBC 99.076  
(50pg) / ROK 500

Fig 7

09745687-122200

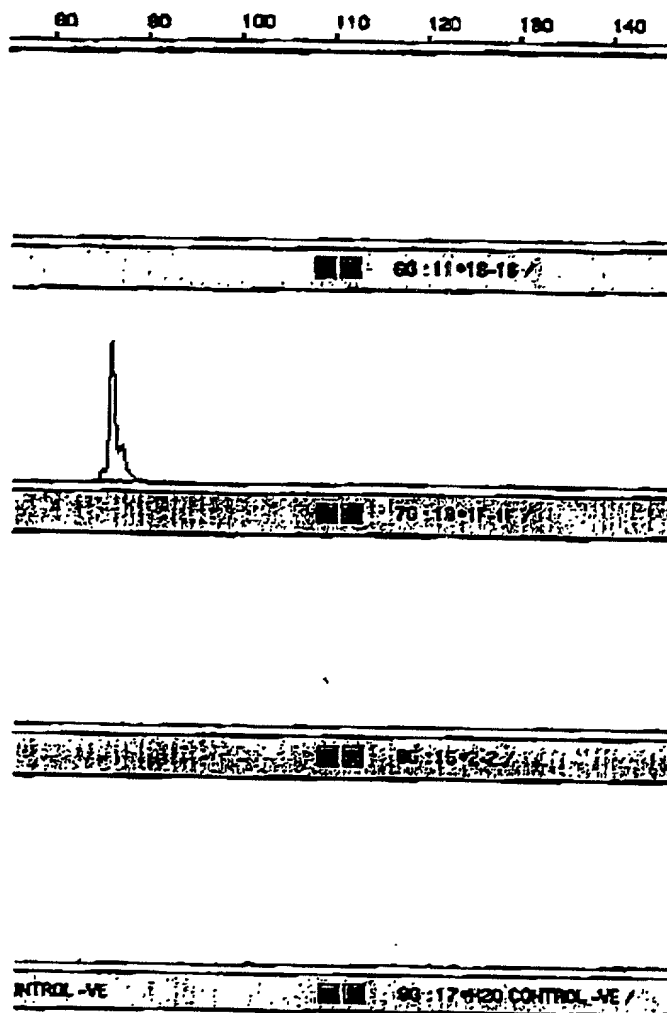


Fig 8



002227" 28954650

100 110 120 130 140

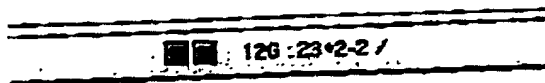
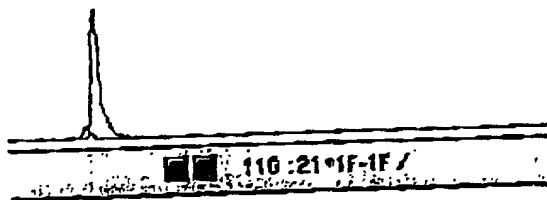
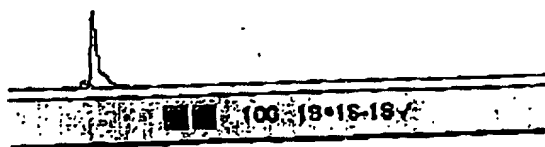


Fig 9

002221 2895460

100 110 120 130 140

14G:27\*19-15 /

15G:23\*1F-1F /

16G:31\*2-2 /

17G:23\*120 Control - 1F /

Fig 10

09743687-12200

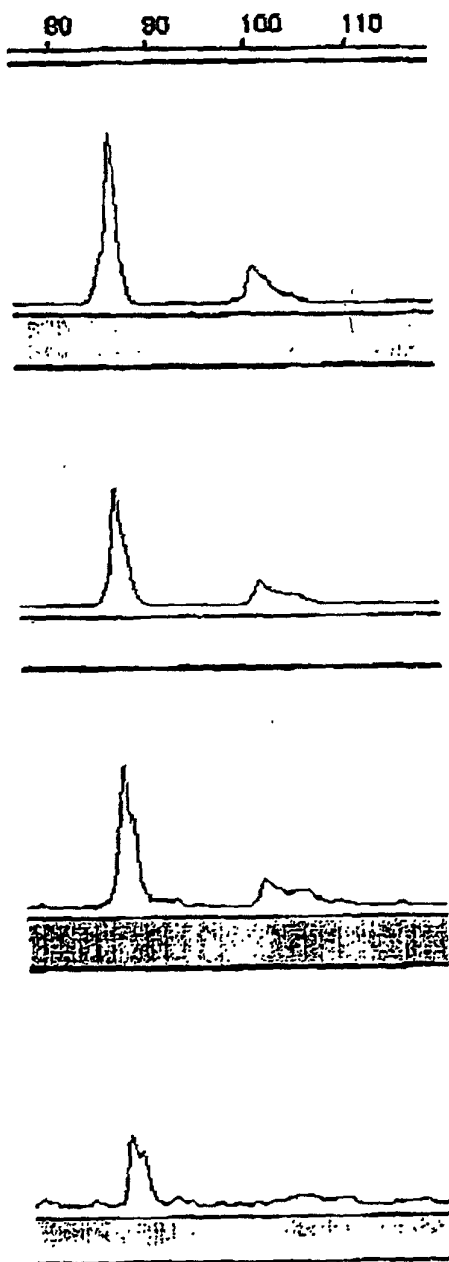


Fig 11